

Titre: **Catalytic hydrogenation process.**

Inventeur(s): LE PELTIER FABIENNE (FR); DIDILLON BLAISE (FR); BOITIAUX JEAN-PAUL (FR); SARRAZIN PATRICK (FR)

Déposant: INST FRANCAIS DU PETROL (FR)

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Process for hydrogenation with a catalyst including at least one support, at least one metal of the class of group VIII, at least one additional metal M chosen from germanium, tin, lead, gallium, indium, titanium, iron, molybdenum, tungsten, rhenium and thallium, said catalyst being prepared by introduction of at least one organic compound of the diluted metal M in situ into the reactor where the hydrocarbon feedstock will be subsequently treated or into a prereactor directly in contact with the said reactor. The catalyst prepared according to the invention may also include a halogen or a sulphuride.